| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DragSourceDragEvent.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/awt/dnd/DragSourceContext.html)   [**NEXT CLASS**](http://docs.google.com/java/awt/dnd/DragSourceDropEvent.html) | [**FRAMES**](http://docs.google.com/index.html?java/awt/dnd/DragSourceDragEvent.html)    [**NO FRAMES**](http://docs.google.com/DragSourceDragEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: FIELD | [CONSTR](#17dp8vu) | [METHOD](#lnxbz9) |

## **java.awt.dnd**

Class DragSourceDragEvent

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.util.EventObject](http://docs.google.com/java/util/EventObject.html)  
 [java.awt.dnd.DragSourceEvent](http://docs.google.com/java/awt/dnd/DragSourceEvent.html)  
 **java.awt.dnd.DragSourceDragEvent**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html)

public class **DragSourceDragEvent**extends [DragSourceEvent](http://docs.google.com/java/awt/dnd/DragSourceEvent.html)

The DragSourceDragEvent is delivered from the DragSourceContextPeer, via the DragSourceContext, to the DragSourceListener registered with that DragSourceContext and with its associated DragSource.

The DragSourceDragEvent reports the *target drop action* and the *user drop action* that reflect the current state of the drag operation.

*Target drop action* is one of DnDConstants that represents the drop action selected by the current drop target if this drop action is supported by the drag source or DnDConstants.ACTION\_NONE if this drop action is not supported by the drag source.

*User drop action* depends on the drop actions supported by the drag source and the drop action selected by the user. The user can select a drop action by pressing modifier keys during the drag operation:

Ctrl + Shift -> ACTION\_LINK  
 Ctrl -> ACTION\_COPY  
 Shift -> ACTION\_MOVE

If the user selects a drop action, the *user drop action* is one of DnDConstants that represents the selected drop action if this drop action is supported by the drag source or DnDConstants.ACTION\_NONE if this drop action is not supported by the drag source.

If the user doesn't select a drop action, the set of DnDConstants that represents the set of drop actions supported by the drag source is searched for DnDConstants.ACTION\_MOVE, then for DnDConstants.ACTION\_COPY, then for DnDConstants.ACTION\_LINK and the *user drop action* is the first constant found. If no constant is found the *user drop action* is DnDConstants.ACTION\_NONE.

**Since:** 1.2 **See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#java.awt.dnd.DragSourceDragEvent)

| **Field Summary** | |
| --- | --- |

| **Fields inherited from class java.util.**[**EventObject**](http://docs.google.com/java/util/EventObject.html) |
| --- |
| [source](http://docs.google.com/java/util/EventObject.html#source) |

| **Constructor Summary** | |
| --- | --- |
| [**DragSourceDragEvent**](http://docs.google.com/java/awt/dnd/DragSourceDragEvent.html#DragSourceDragEvent(java.awt.dnd.DragSourceContext,%20int,%20int,%20int))([DragSourceContext](http://docs.google.com/java/awt/dnd/DragSourceContext.html) dsc, int dropAction, int action, int modifiers)            Constructs a DragSourceDragEvent. |
| [**DragSourceDragEvent**](http://docs.google.com/java/awt/dnd/DragSourceDragEvent.html#DragSourceDragEvent(java.awt.dnd.DragSourceContext,%20int,%20int,%20int,%20int,%20int))([DragSourceContext](http://docs.google.com/java/awt/dnd/DragSourceContext.html) dsc, int dropAction, int action, int modifiers, int x, int y)            Constructs a DragSourceDragEvent given the specified DragSourceContext, user drop action, target drop action, modifiers and coordinates. |

| **Method Summary** | |
| --- | --- |
| int | [**getDropAction**](http://docs.google.com/java/awt/dnd/DragSourceDragEvent.html#getDropAction())()            This method returns the logical intersection of the target drop action and the set of drop actions supported by the drag source. |
| int | [**getGestureModifiers**](http://docs.google.com/java/awt/dnd/DragSourceDragEvent.html#getGestureModifiers())()            This method returns an int representing the current state of the input device modifiers associated with the user's gesture. |
| int | [**getGestureModifiersEx**](http://docs.google.com/java/awt/dnd/DragSourceDragEvent.html#getGestureModifiersEx())()            This method returns an int representing the current state of the input device extended modifiers associated with the user's gesture. |
| int | [**getTargetActions**](http://docs.google.com/java/awt/dnd/DragSourceDragEvent.html#getTargetActions())()            This method returns the target drop action. |
| int | [**getUserAction**](http://docs.google.com/java/awt/dnd/DragSourceDragEvent.html#getUserAction())()            This method returns the user drop action. |

| **Methods inherited from class java.awt.dnd.**[**DragSourceEvent**](http://docs.google.com/java/awt/dnd/DragSourceEvent.html) |
| --- |
| [getDragSourceContext](http://docs.google.com/java/awt/dnd/DragSourceEvent.html#getDragSourceContext()), [getLocation](http://docs.google.com/java/awt/dnd/DragSourceEvent.html#getLocation()), [getX](http://docs.google.com/java/awt/dnd/DragSourceEvent.html#getX()), [getY](http://docs.google.com/java/awt/dnd/DragSourceEvent.html#getY()) |

| **Methods inherited from class java.util.**[**EventObject**](http://docs.google.com/java/util/EventObject.html) |
| --- |
| [getSource](http://docs.google.com/java/util/EventObject.html#getSource()), [toString](http://docs.google.com/java/util/EventObject.html#toString()) |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Constructor Detail** |
| --- |

### DragSourceDragEvent

public **DragSourceDragEvent**([DragSourceContext](http://docs.google.com/java/awt/dnd/DragSourceContext.html) dsc,  
 int dropAction,  
 int action,  
 int modifiers)

Constructs a DragSourceDragEvent. This class is typically instantiated by the DragSourceContextPeer rather than directly by client code. The coordinates for this DragSourceDragEvent are not specified, so getLocation will return null for this event.

The arguments dropAction and action should be one of DnDConstants that represents a single action. The argument modifiers should be either a bitwise mask of old java.awt.event.InputEvent.\*\_MASK constants or a bitwise mask of extended java.awt.event.InputEvent.\*\_DOWN\_MASK constants. This constructor does not throw any exception for invalid dropAction, action and modifiers.

**Parameters:**dsc - the DragSourceContext that is to manage notifications for this event.dropAction - the user drop action.action - the target drop action.modifiers - the modifier keys down during event (shift, ctrl, alt, meta) Either extended \_DOWN\_MASK or old \_MASK modifiers should be used, but both models should not be mixed in one event. Use of the extended modifiers is preferred. **Throws:** IllegalArgumentException - if dsc is null.**See Also:**[InputEvent](http://docs.google.com/java/awt/event/InputEvent.html), [DragSourceEvent.getLocation()](http://docs.google.com/java/awt/dnd/DragSourceEvent.html#getLocation())

### DragSourceDragEvent

public **DragSourceDragEvent**([DragSourceContext](http://docs.google.com/java/awt/dnd/DragSourceContext.html) dsc,  
 int dropAction,  
 int action,  
 int modifiers,  
 int x,  
 int y)

Constructs a DragSourceDragEvent given the specified DragSourceContext, user drop action, target drop action, modifiers and coordinates.

The arguments dropAction and action should be one of DnDConstants that represents a single action. The argument modifiers should be either a bitwise mask of old java.awt.event.InputEvent.\*\_MASK constants or a bitwise mask of extended java.awt.event.InputEvent.\*\_DOWN\_MASK constants. This constructor does not throw any exception for invalid dropAction, action and modifiers.

**Parameters:**dsc - the DragSourceContext associated with this event.dropAction - the user drop action.action - the target drop action.modifiers - the modifier keys down during event (shift, ctrl, alt, meta) Either extended \_DOWN\_MASK or old \_MASK modifiers should be used, but both models should not be mixed in one event. Use of the extended modifiers is preferred.x - the horizontal coordinate for the cursor locationy - the vertical coordinate for the cursor location **Throws:** IllegalArgumentException - if dsc is null.**Since:** 1.4 **See Also:**[InputEvent](http://docs.google.com/java/awt/event/InputEvent.html)

| **Method Detail** |
| --- |

### getTargetActions

public int **getTargetActions**()

This method returns the target drop action.

**Returns:**the target drop action.

### getGestureModifiers

public int **getGestureModifiers**()

This method returns an int representing the current state of the input device modifiers associated with the user's gesture. Typically these would be mouse buttons or keyboard modifiers.

If the modifiers passed to the constructor are invalid, this method returns them unchanged.

**Returns:**the current state of the input device modifiers

### getGestureModifiersEx

public int **getGestureModifiersEx**()

This method returns an int representing the current state of the input device extended modifiers associated with the user's gesture. See [InputEvent.getModifiersEx()](http://docs.google.com/java/awt/event/InputEvent.html#getModifiersEx())

If the modifiers passed to the constructor are invalid, this method returns them unchanged.

**Returns:**the current state of the input device extended modifiers**Since:** 1.4

### getUserAction

public int **getUserAction**()

This method returns the user drop action.

**Returns:**the user drop action.

### getDropAction

public int **getDropAction**()

This method returns the logical intersection of the target drop action and the set of drop actions supported by the drag source.

**Returns:**the logical intersection of the target drop action and the set of drop actions supported by the drag source.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DragSourceDragEvent.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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